

Title (en)  
FUEL INJECTION APPARATUS

Publication  
**EP 0065771 A3 19831207 (EN)**

Application  
**EP 82104470 A 19820521**

Priority  
JP 7819681 A 19810522

Abstract (en)  
[origin: EP0065771A2] A fuel injection apparatus in accordance with the invention has a hot wire type sensor (28) disposed in a bypass air passage (26) and adapted to sense the flow rate of air in the bypass air passage (26). In order to absorb the pulsation of air flowing in the bypass air passage (26), the bypass air passage (26) opens at its one end to the air cleaner (12) of an intake system disposed in a portion upstream from the hot wire sensor (28). An orifice (32) is disposed in a portion of the bypass air passage (26) downstream from the hot wire sensor (28).

IPC 1-7  
**F02M 7/12**

IPC 8 full level  
**F02D 41/34** (2006.01); **F02D 3/00** (2006.01); **F02D 41/18** (2006.01); **F02M 69/00** (2006.01); **F02M 69/18** (2006.01); **G01F 1/684** (2006.01); **G01F 1/72** (2006.01)

CPC (source: EP US)  
**F02D 41/187** (2013.01 - EP US); **F02M 69/18** (2013.01 - EP US); **G01F 1/6842** (2013.01 - EP US); **G01F 1/72** (2013.01 - EP US)

Citation (search report)

- [A] DE 3017662 A1 19801127 - HITACHI LTD
- [A] DE 2921787 A1 19791206 - HITACHI LTD
- [A] GB 2025062 A 19800116 - DEGUSSA
- [A] EP 0023632 A1 19810211 - HITACHI LTD [JP]
- [A] Patent Abstracts of Japan Vol. 4, no. 88, 24 June 1980 Page 95M17 & JP-A-55 046 061
- [A] Patent Abstracts of Japan Vol. 4, no. 169, 21 November 1980 & JP-A-55 119 925
- [A] Patent Abstracts of Japan Vol. 5, no. 10, 22 January 1981 & JP-A-55 142 941

Cited by  
US5241857A; WO9102225A1

Designated contracting state (EPC)  
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0065771 A2 19821201**; **EP 0065771 A3 19831207**; **EP 0065771 B1 19860827**; DE 3272857 D1 19861002; JP S57193760 A 19821129; US 4448172 A 19840515

DOCDB simple family (application)  
**EP 82104470 A 19820521**; DE 3272857 T 19820521; JP 7819681 A 19810522; US 38033982 A 19820520